

In the Claims

- 1) (currently amended) A device for introducing liquids or gas into a mass spectrometers vacuum, ~~said system~~ comprising:
- a) a housing encompassing an internal standard reservoir;
  - b) a stepper motor mounted on an outside wall of said housing;
  - c) a guide rod extending through said wall into said housing under control of said stepped motor;
  - d) a sampler rod having engineered leaks for introducing environmental matter into said reservoir, said sampler rod being within said reservoir and slidable out through an opposite wall of said housing engaged to and driven by said guide rod, the sampler rod under the guidance of the stepper motor moving from an engaging position with a predetermined known sample material inside of the internal standard reservoir to an engaging external position with an environmental material to be sampled so as to permit alternate sampling of said known sample material and said environmental material; and
  - e) a pressure compensating bladder mounted in said opposite wall of said housing; ; and
  - f) means for mounting said device on a mass spectrometer for providing sealed communication between said reservoir and said spectrometer.
- 2) (canceled)

- 3) (currently amended) The device of Claim 1 2 wherein said sealing means includes said housing having a fastening element with said fastening element having a plurality of fastening element engaging O-rings.
- 4) (currently amended) The device of Claim 1 2 wherein said sealing means includes said housing having a threaded element with said threaded element having a plurality of circumferentially mounted engaging O-rings.
- 5) (original) The device of Claim 1 wherein said stepper motor is responsive to a control signal.
- 6) (original) The device of Claim 5 wherein said stepper motor longitudinally moves said guide rod a predetermined distance specified by said control signal.
- 7) (currently amended) The device of Claim 6 wherein said guide rod has a sampler rod engaging member for moving whereby said sampler rod ~~moves~~ in conjunction with said guide rod.
- 8) (canceled)
- 9) (original) The device of Claim 1 wherein the housing has sealing means circumferentially engaging said sampler rod.
- 10) (currently amended) The device of Claim 7 4 wherein the sampler rod while residing within the housing is substantially encompassed by a cavity having conduit communication with a mass spectrometer vacuum system.

- 11) (currently amended) The device of Claim 10 + wherein the known sample material ~~is internal standard reservoir has a quantity of a known substance having known results~~ that will be used to determine the working condition of the a mass spectrometer.
- 12) (currently amended) The device of Claim 11 + wherein the internal reservoir is in communication with the pressure compensating bladder whereby the known sample material will be subjected to the same pressure as the sampler rod material.
- 13) (currently amended) The device of Claim 12 + further comprising a plenum assembly having an attachment ring for mounting said assembly to an the environmental sampler to receive said sampler rod.
- 14) (original) The device of Claim 13 wherein said plenum assembly has an internal chamber having an inlet port and an outlet port whereby sample material can be directed across the sampler rod.
- 15) (currently amended) The device of Claim 14 + further comprising a waste vacuum port assembly.
- 16) (original) The device of Claim 15 wherein said waste vacuum port has means for mounting said port to the environmental sampler.
- 17) The device of Claim 16 wherein said waste vacuum port has a spacer element and a rotating cap assembly.
- 18) (canceled)

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19) (currently amended) The device of Claim 17 ~~18~~ wherein the mass spectrometer analysis of the internal standard reservoir sample produces a known quantity that will be used to verify the accuracy of the in situ testing.

20) (canceled)